West Riverside SAMP Project

January, 2003

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Project Geospatial Components

Gives The User:

- **the capability to create a map product without requiring the use of commercial geographical software.**
- **the capacity to geo locate specific :**
  - Zip codes
  - Places
  - Hydrologic Sub-Areas
  - Observation Points
  - Sample Points
  - Vegetation Types
- **the capacity to query data layers, display**

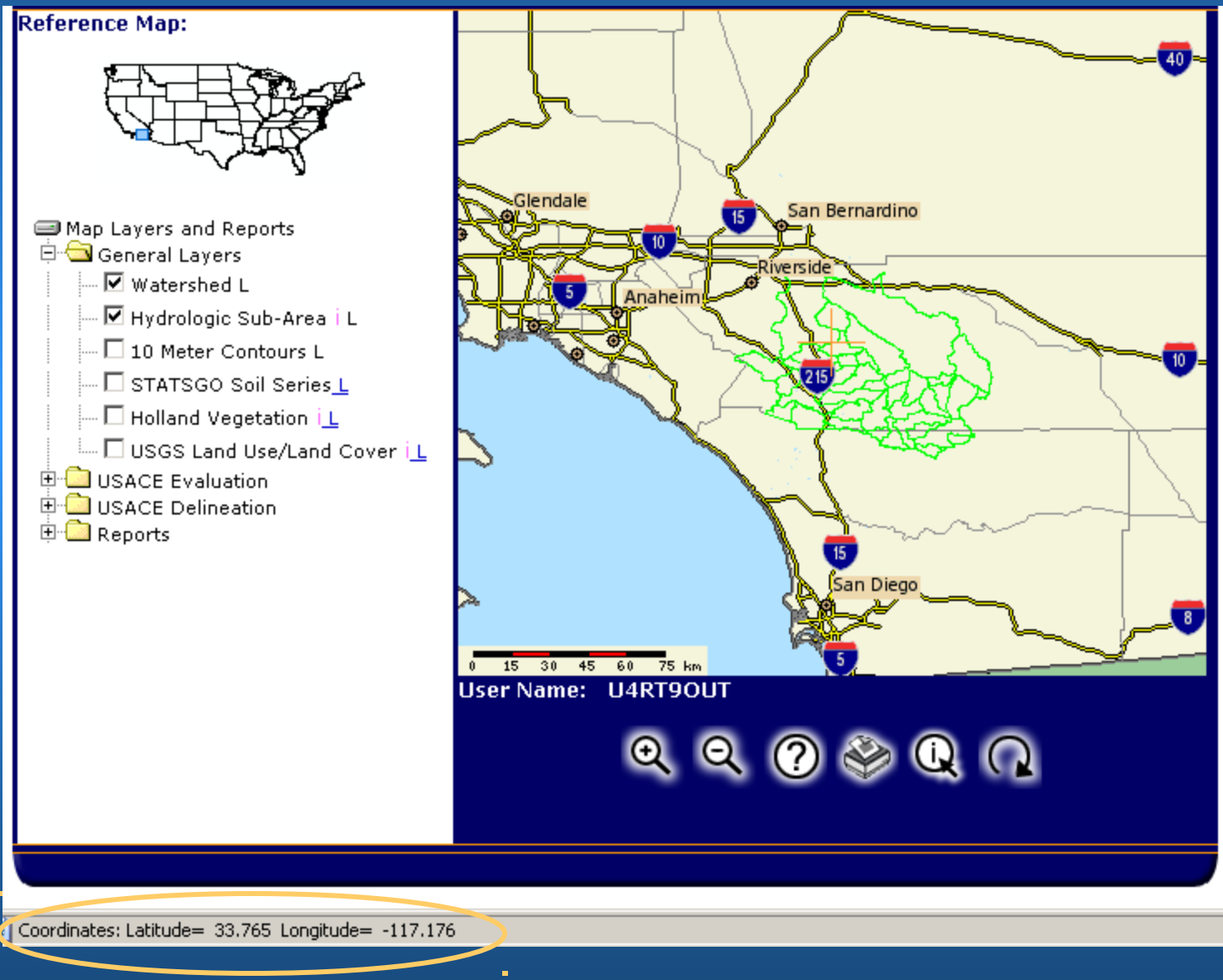
West Riverside SAMP Project

- PL/SQL, Java, JavaScript, HTML and
- All Data Stored Directly In Oracle Da
- Open Source Mapping Software - Ma
  - Cost
  - Performance
  - Flexibility

Features Of The Tool

Cursor Position

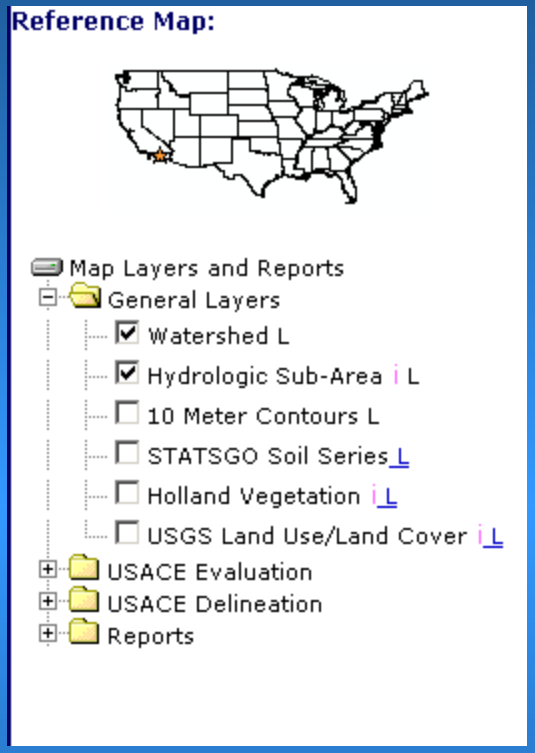
Cursor Position Is Continually Displayed In Latitude/

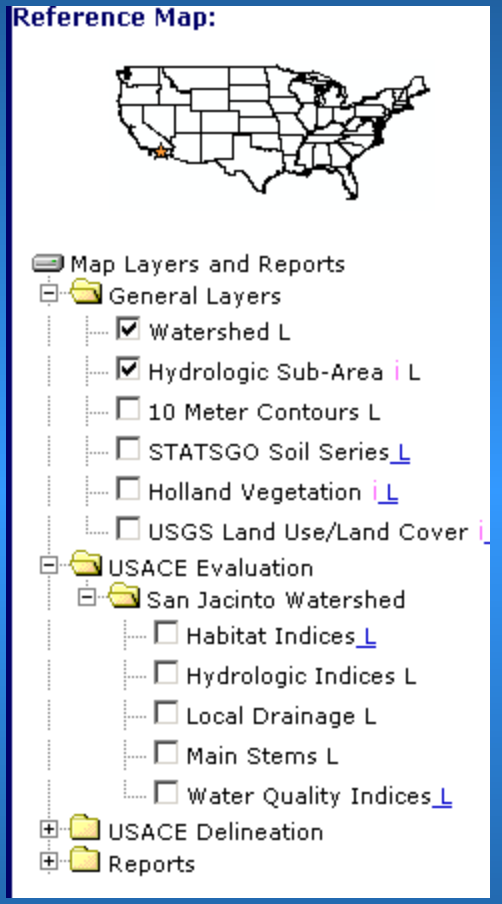


Zoom To Location

Zoom in or out
rom center of map

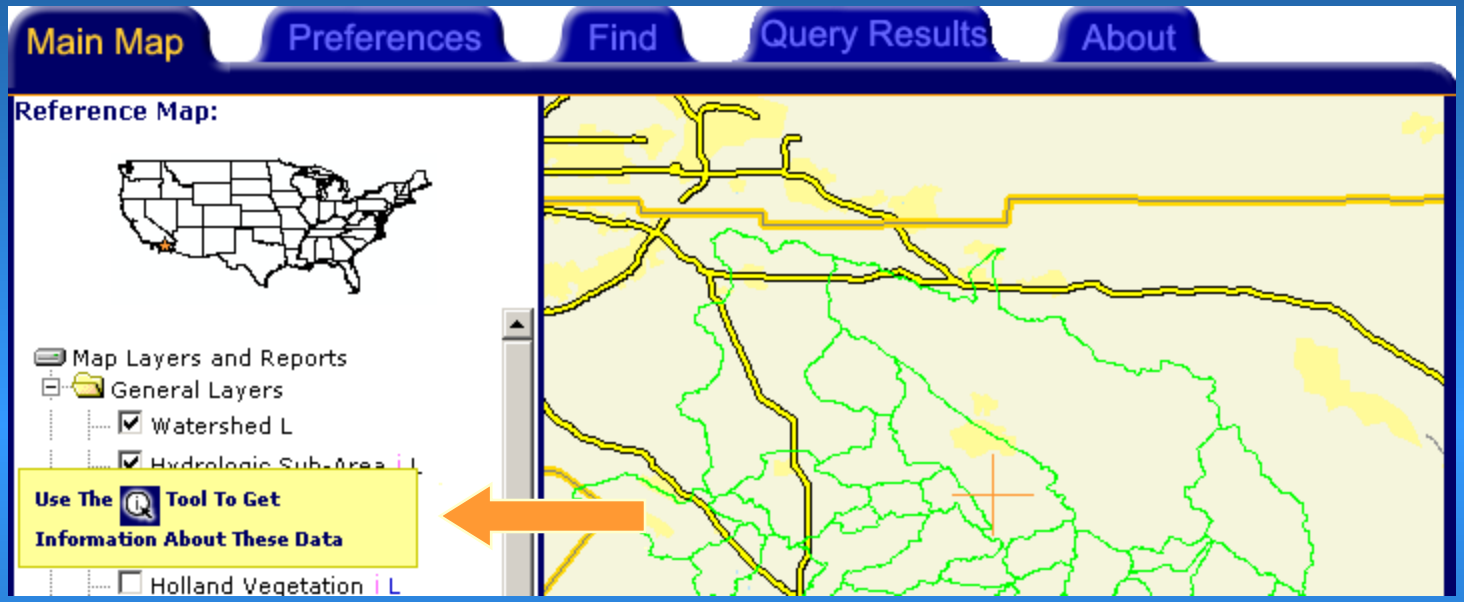
Expandable Data Layers

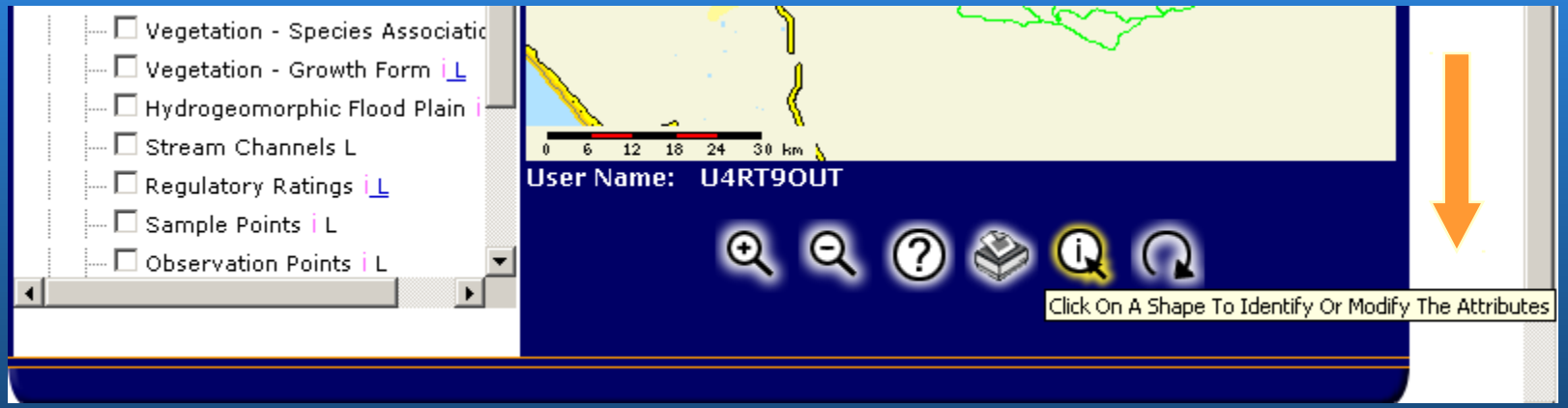




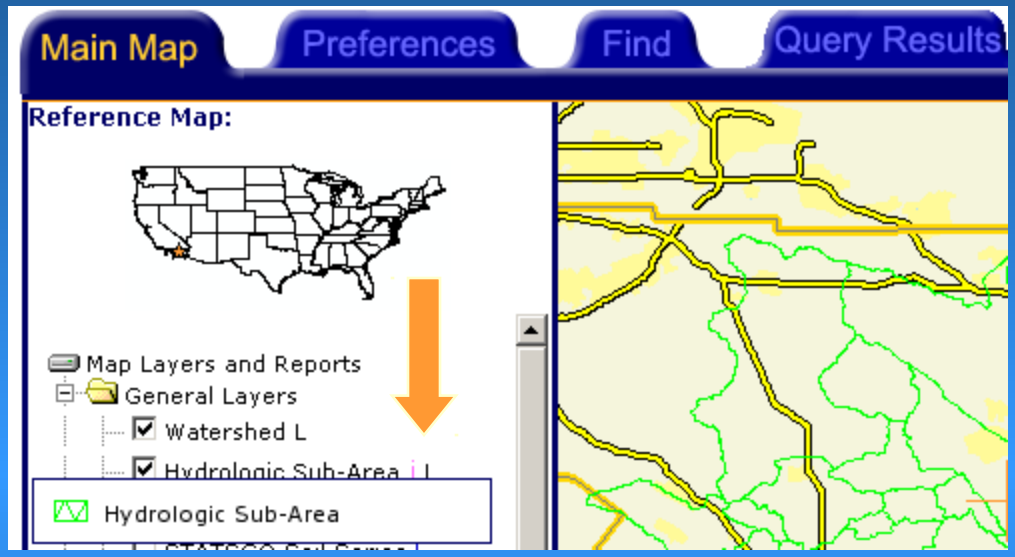
Data Layer Selection List Expands As Ne

Intuitive Online Help



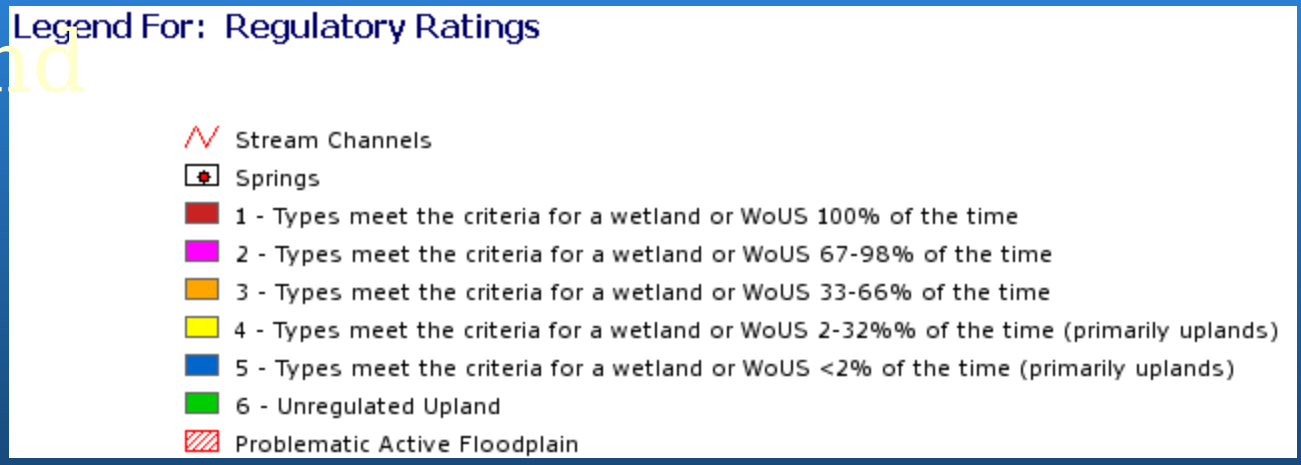

Vegetation - Species Associatic
Vegetation - Growth Form i L
Hydrogeomorphic Flood Plain i
Stream Channels L
Regulatory Ratings i L
Sample Points i L
Observation Points i L
0 6 12 18 24 30 km
User Name: U4RT9OUT
Click On A Shape To Identify Or Modify The Attributes

Detailed Data Legends

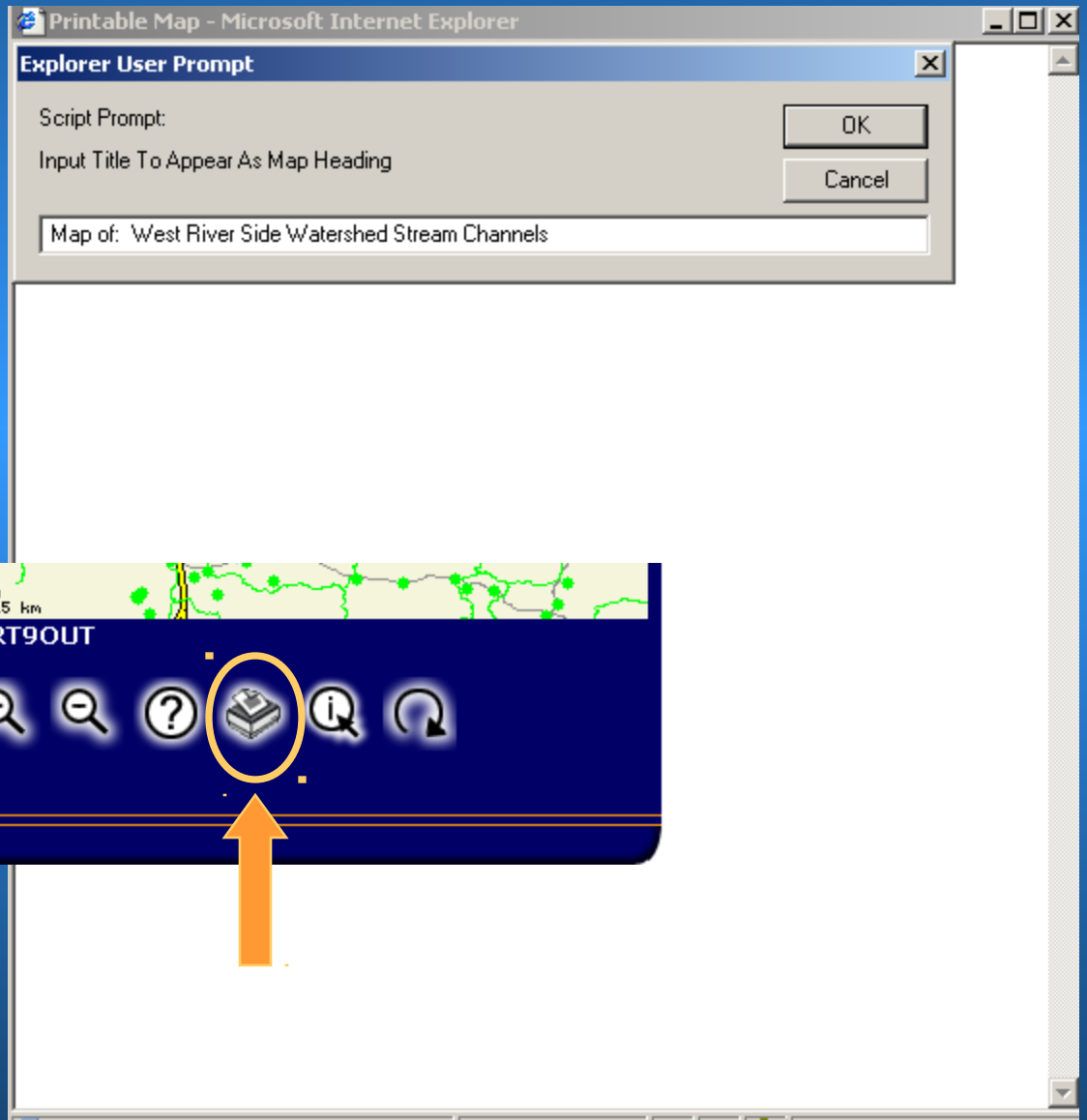


While hovering over
A Small legend.

Selecting A Large Legend

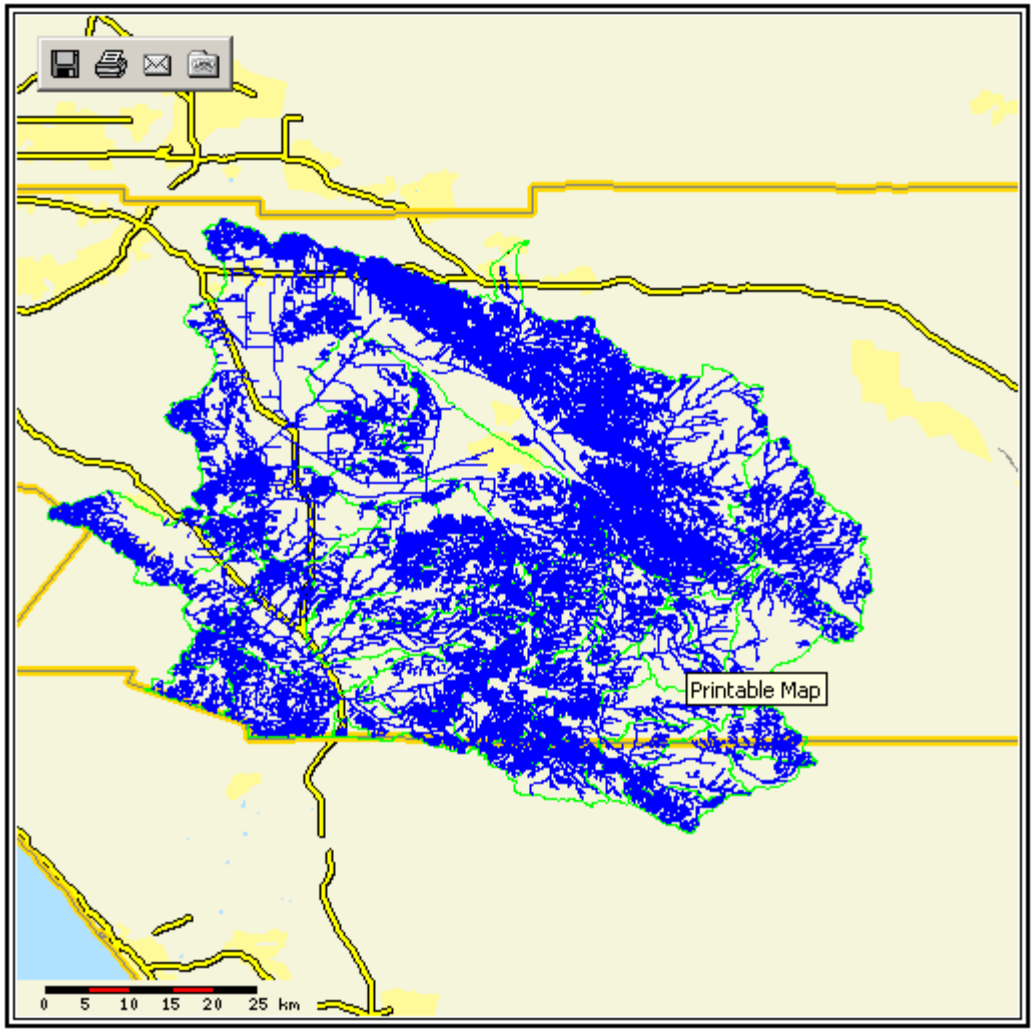

Legend For: Regulatory Ratings
Stream Channels
Springs
1 - Types meet the criteria for a wetland or WoUS 100% of the time
2 - Types meet the criteria for a wetland or WoUS 67-98% of the time
3 - Types meet the criteria for a wetland or WoUS 33-66% of the time
4 - Types meet the criteria for a wetland or WoUS 2-32%% of the time (primarily uplands)
5 - Types meet the criteria for a wetland or WoUS <2% of the time (primarily uplands)
6 - Unregulated Upland
Problematic Active Floodplain

User Defined Heading On Printable Map


Printable Map - Microsoft Internet Explorer
Explorer User Prompt
Script Prompt:
Input Title To Appear As Map Heading
OK
Cancel
Map of: West River Side Watershed Stream Channels
0 3 6 9 12 15 km
User Name: U4RT9OUT

Printable Map

Map of: West River Side Watershed Stream Channels



Date Generated: January 14, 2003

Interactive Help Screen

Western Riverside County SAMP Project - Help - Microsoft Internet Explorer

Help Page for West Riverside County SAMP Project Geospatial Tools

How do I...

Zoom-in | Top Of Page | Zoom-out
Re-center the map | Print the current map
Starting Extent | Obtain Additional Help

Zoom-in? Navigate your mouse over the main map area, holding down either mouse button, drag an Orange box around your desired location. You may also zoom-in to the center of the map by clicking the icon under the "SET MAP MODE" header.

Zoom-out? Navigate your mouse over the main map area, holding down either mouse button,drag a Orange box around your desired location. You may also zoom-out from the center of the map by clicking the icon under the "SET MAP MODE" header.

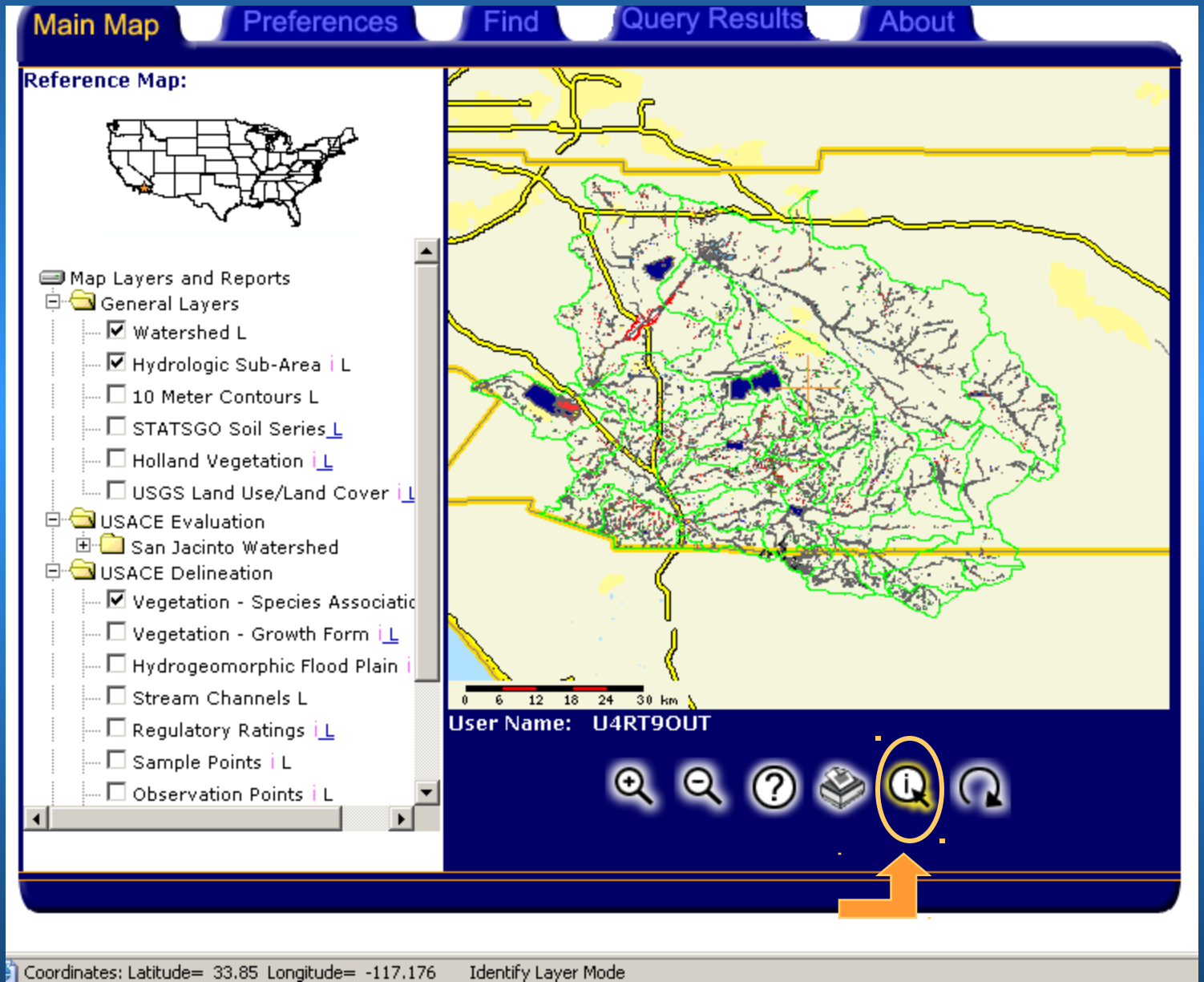
Re-center the map? To re-center your current map extent simply click once at a new
ır click.

r printing by clicking the under the

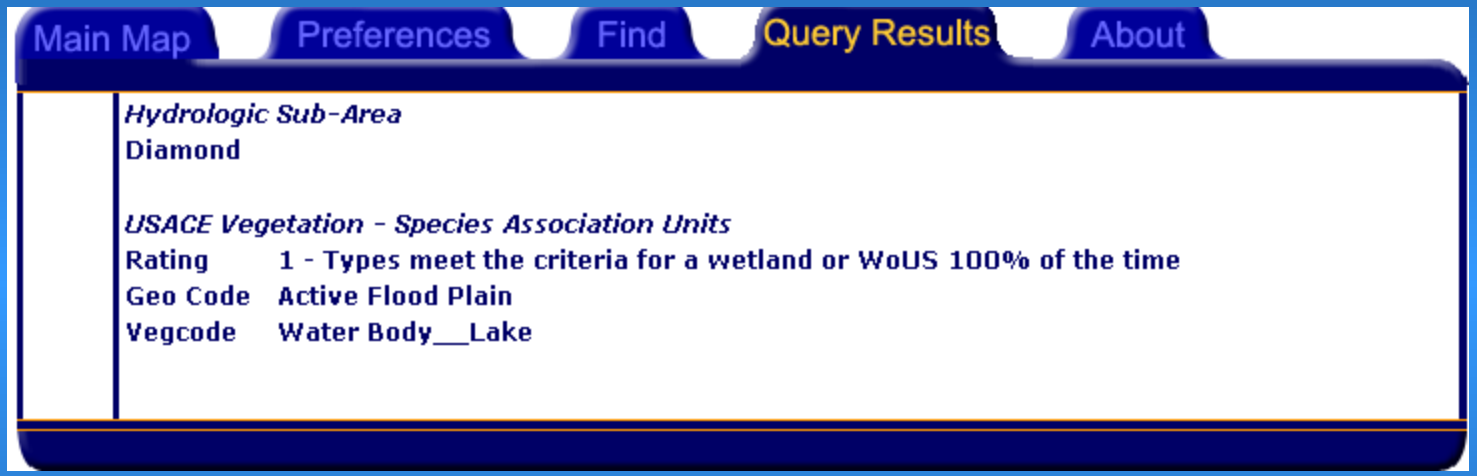
window where you will see the current
ly place a heading on top of the map. If
the main map page and change the map

Internet

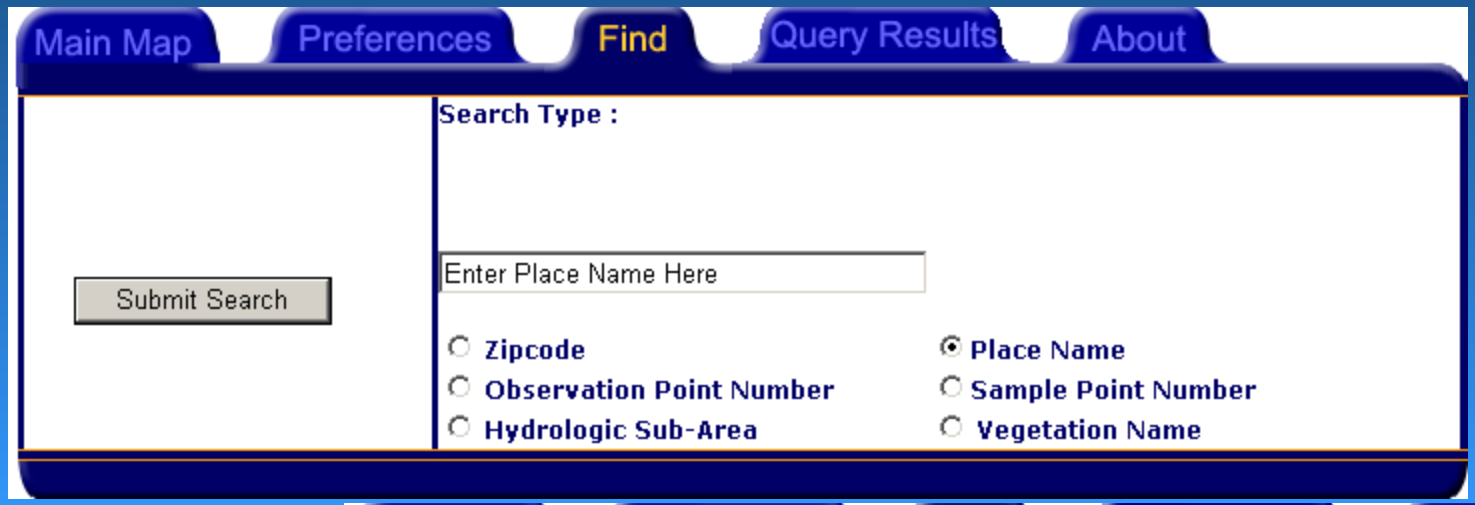
Queryable Data Layers

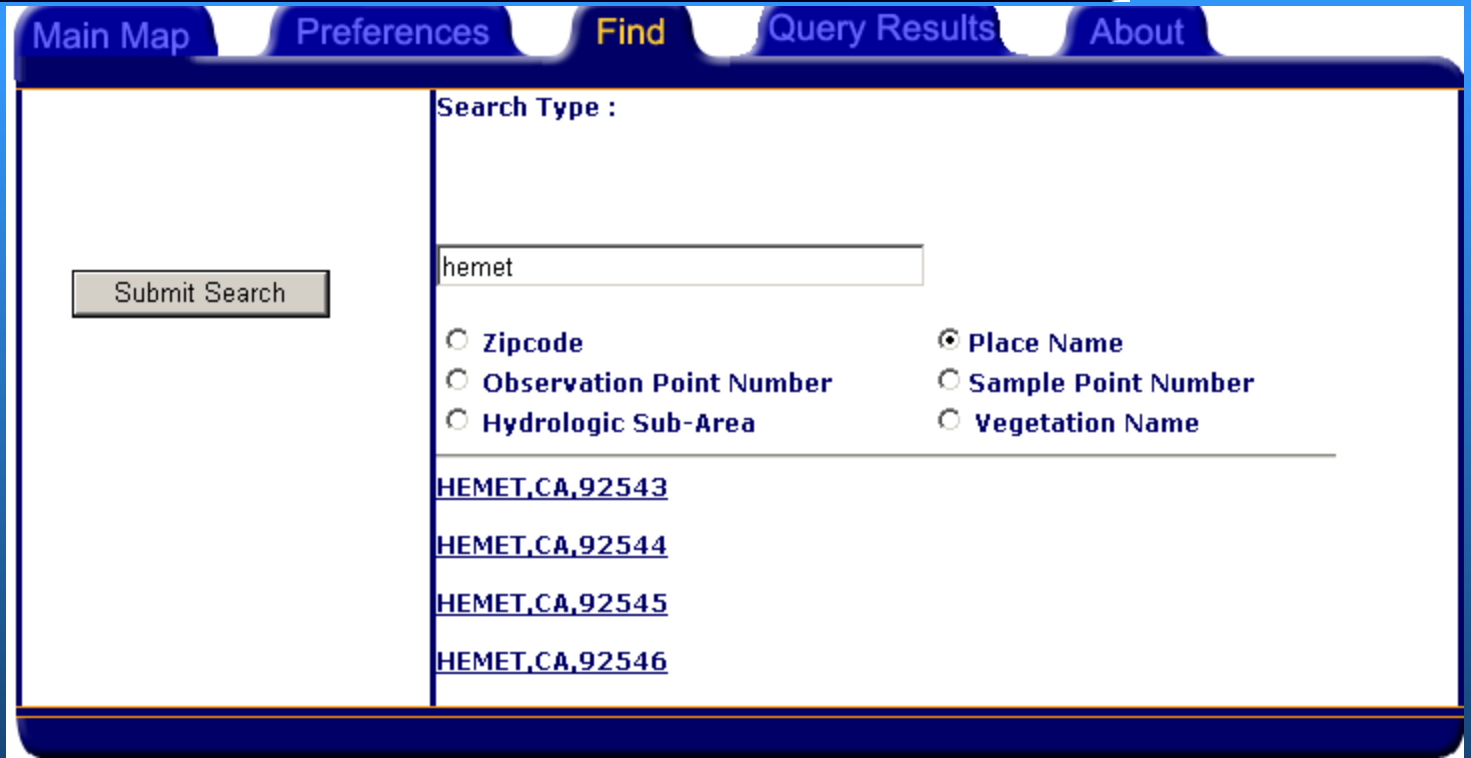


Query Results

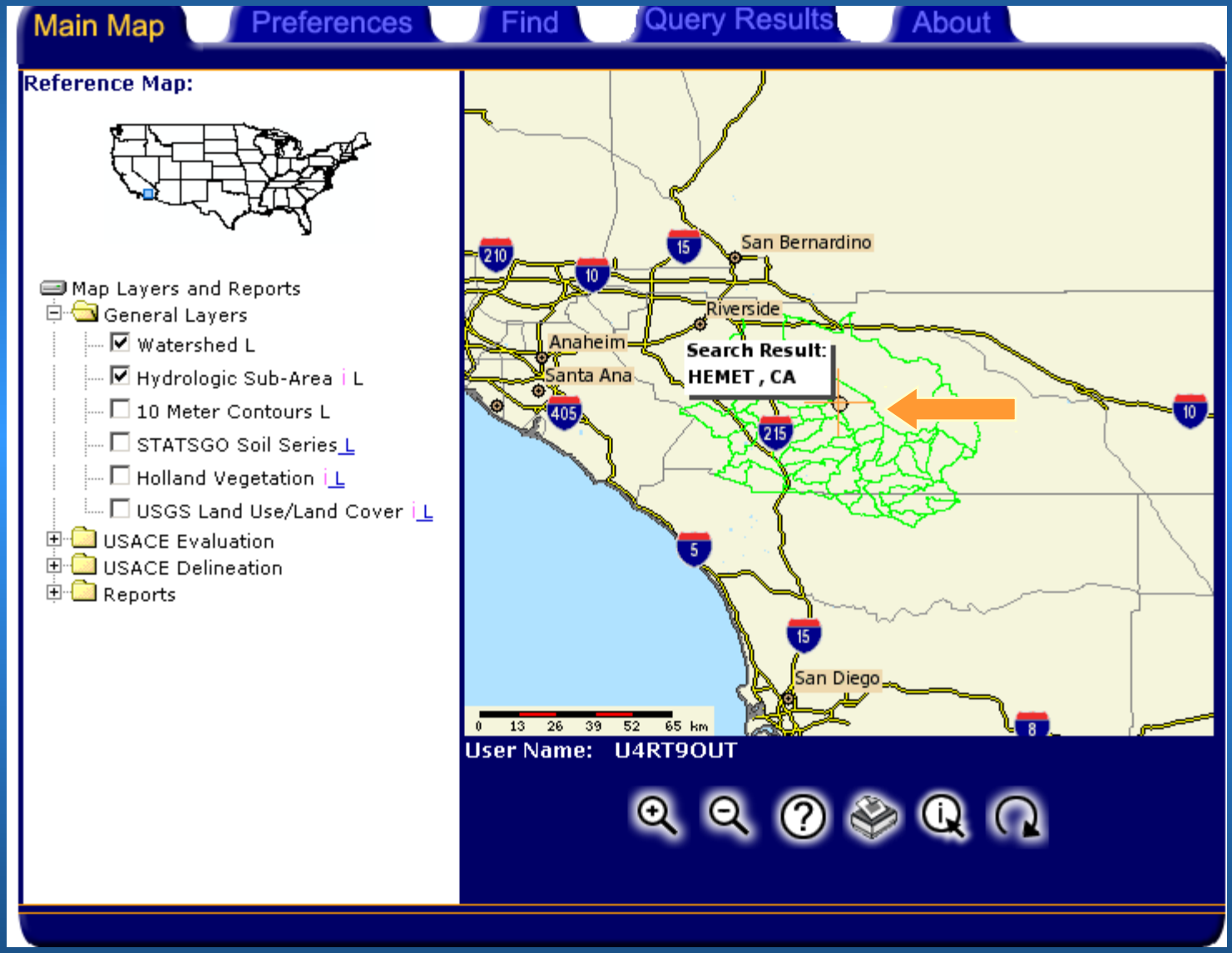


Search Capabilities

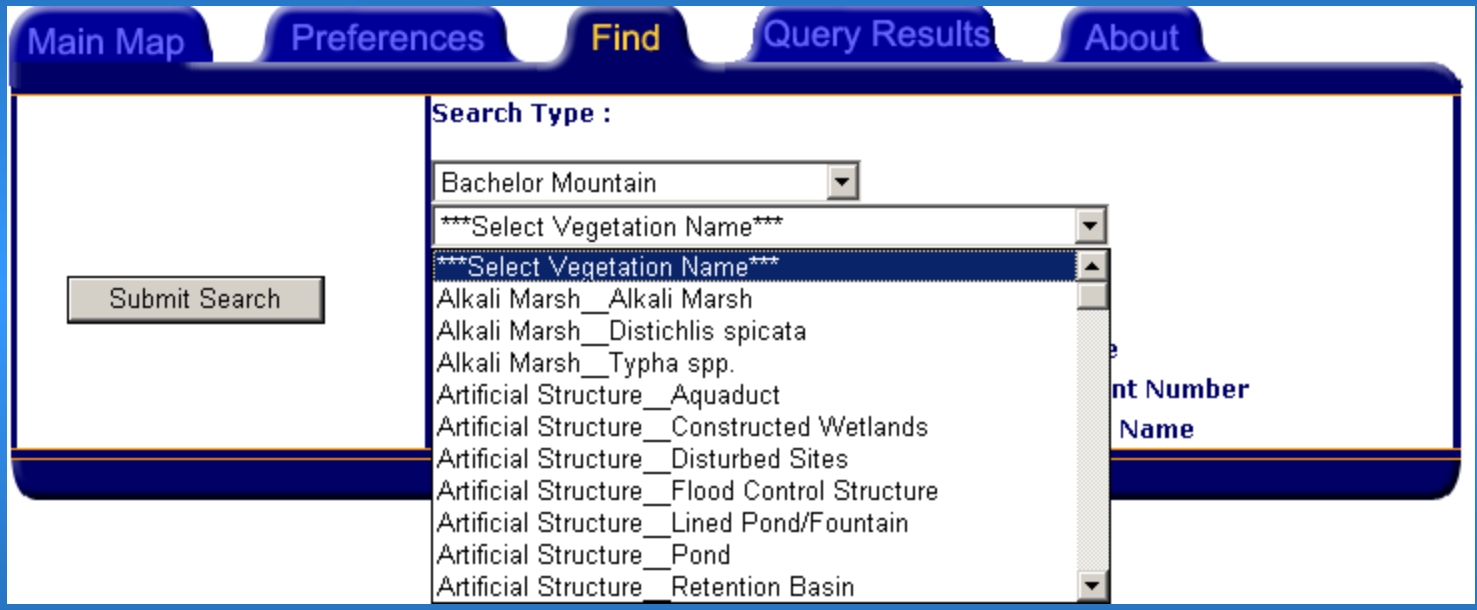




Search Results



Search By Vegetation Type



Search Results

Main Map | Preferences | Find | Query Results | About

Search Type :

Bachelor Mountain

Water Body Lake

Submit Search

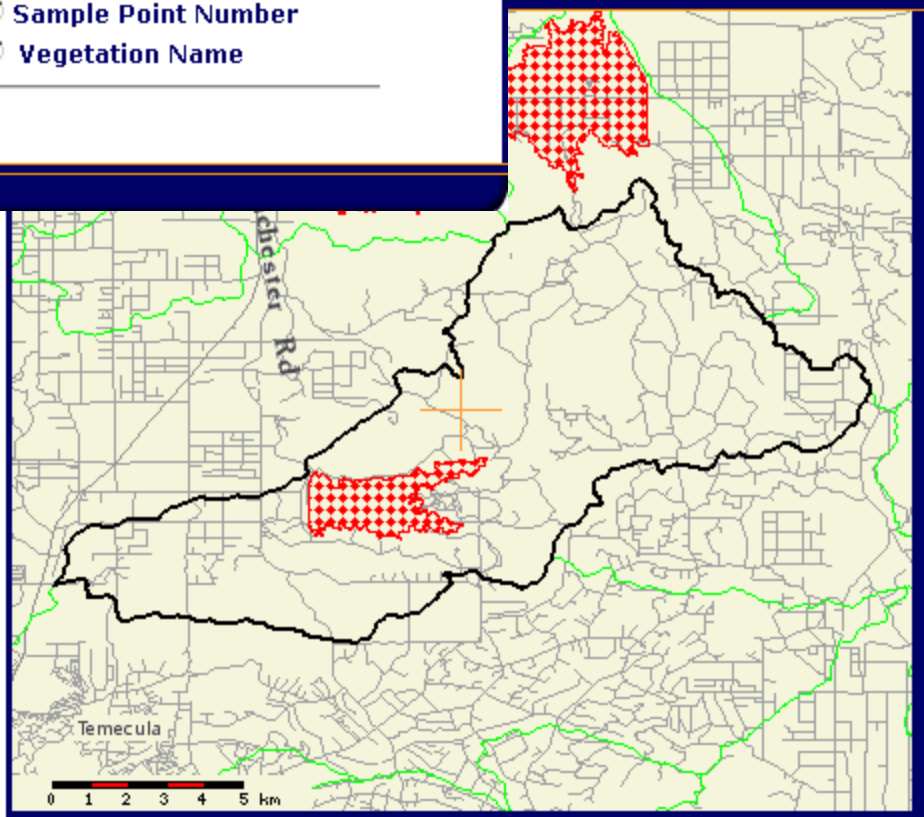
- Zipcode
- Place Name
- Observation Point Number
- Sample Point Number
- Hydrologic Sub-Area
- Vegetation Name

Water Body Lake

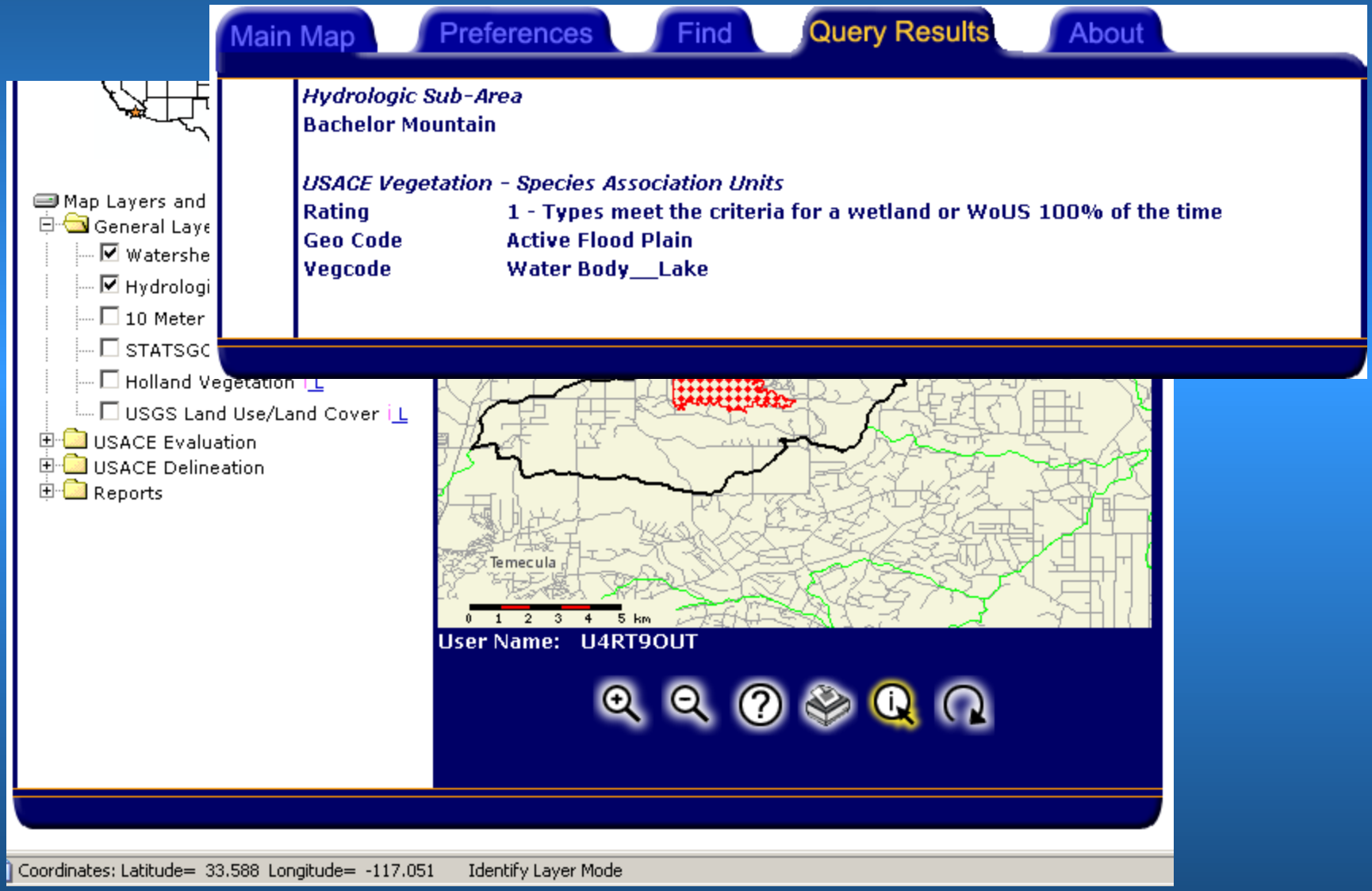
Results

About

Map Layers and Reports
- General Layers
  - Watershed L
  - Hydrologic Sub-Area i L
  - 10 Meter Contours L
  - STATSGO Soil Series L
  - Holland Vegetation i L
  - USGS Land Use/Land Cover i L
- USACE Evaluation
- USACE Delineation
- Reports



Query Search Results



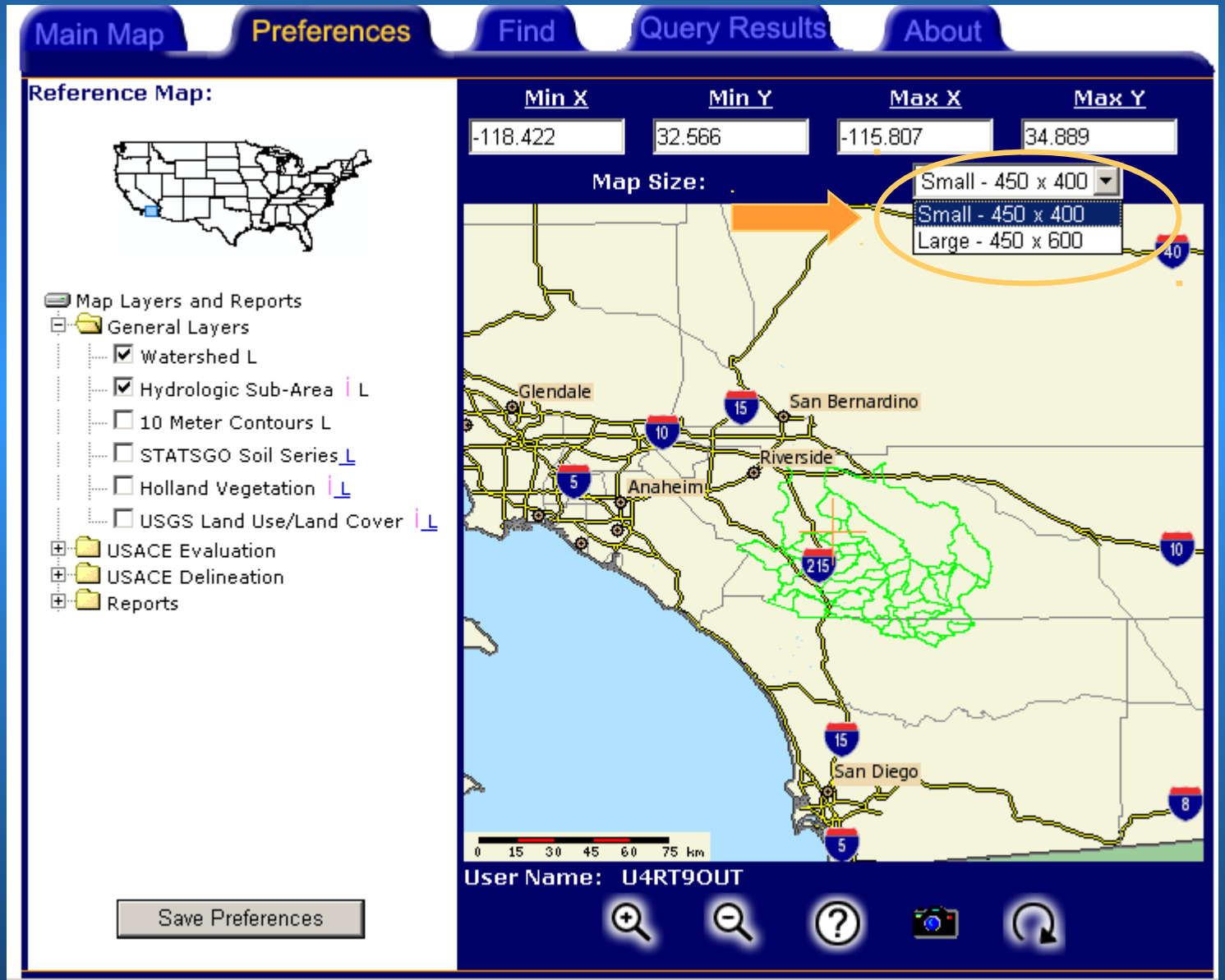
User Preferences

Each User Can Customize The Look Of Their Map

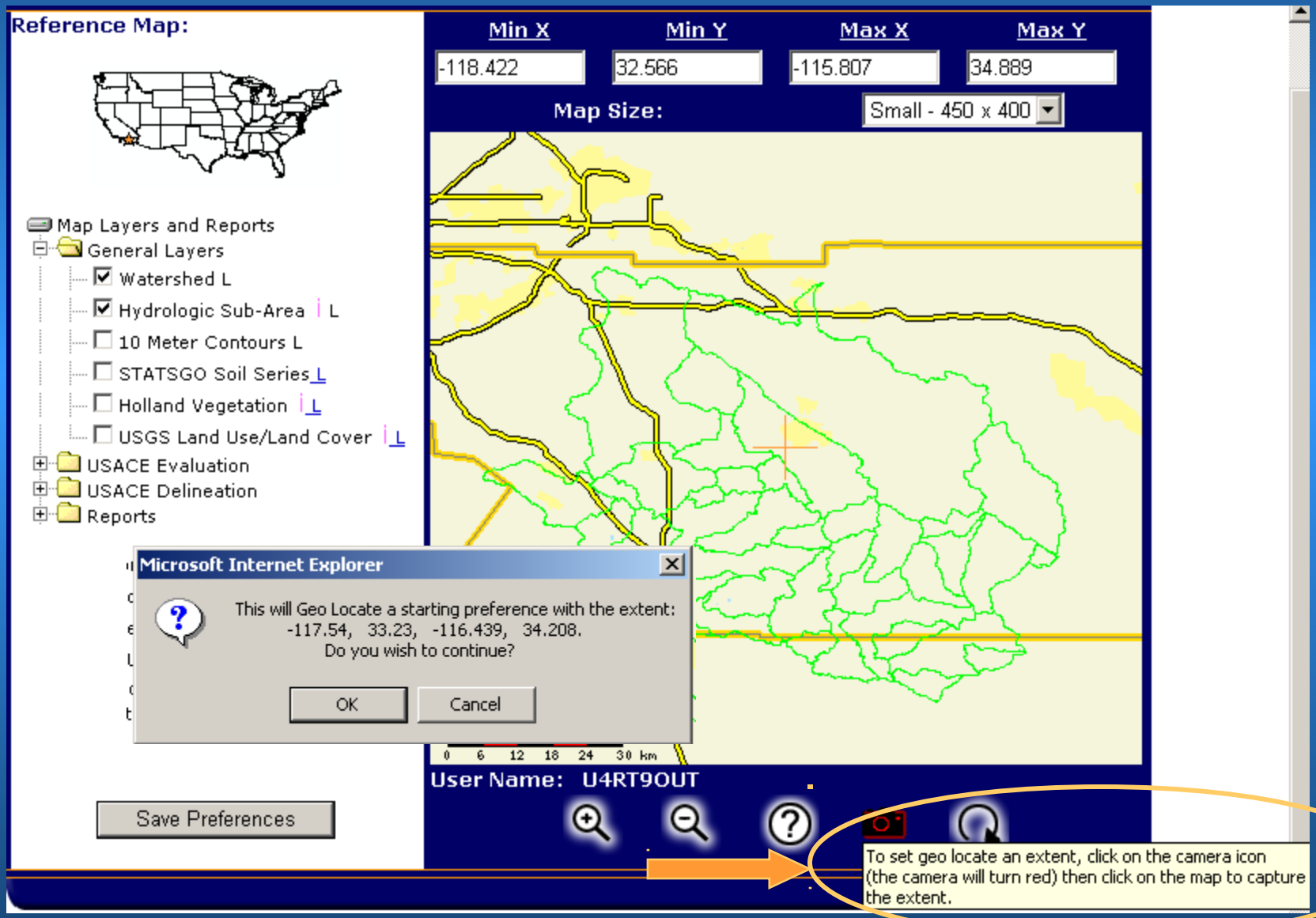
- Map Size
- Starting Extent
- Data Layers To Turn On/Off When Start

Preferences Are Saved In An Oracle Database By The User's Name (Settings Will Appear Regardless Of Which Machine The User Logs Onto)

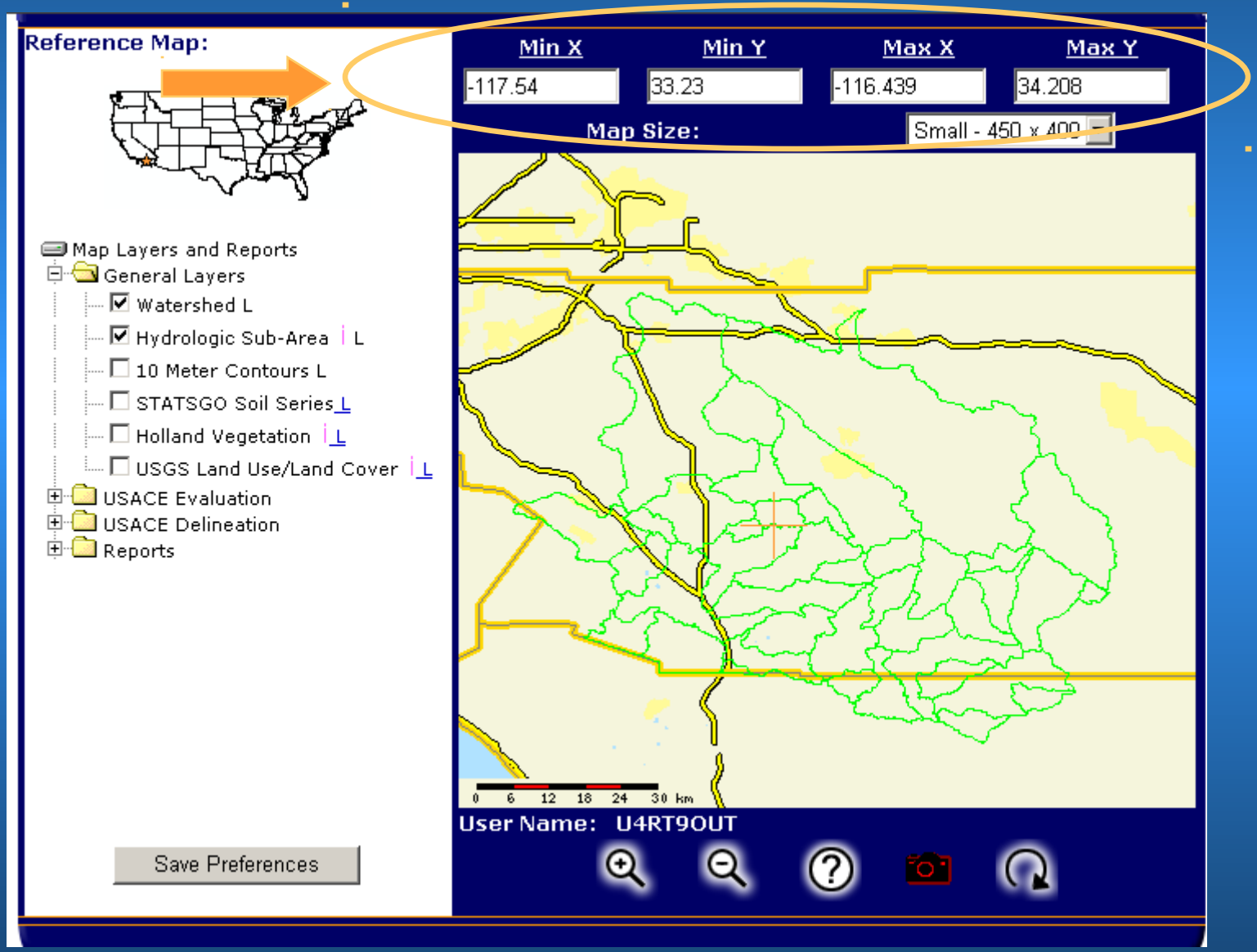
Customizable Map Size



Customizable Map Extent

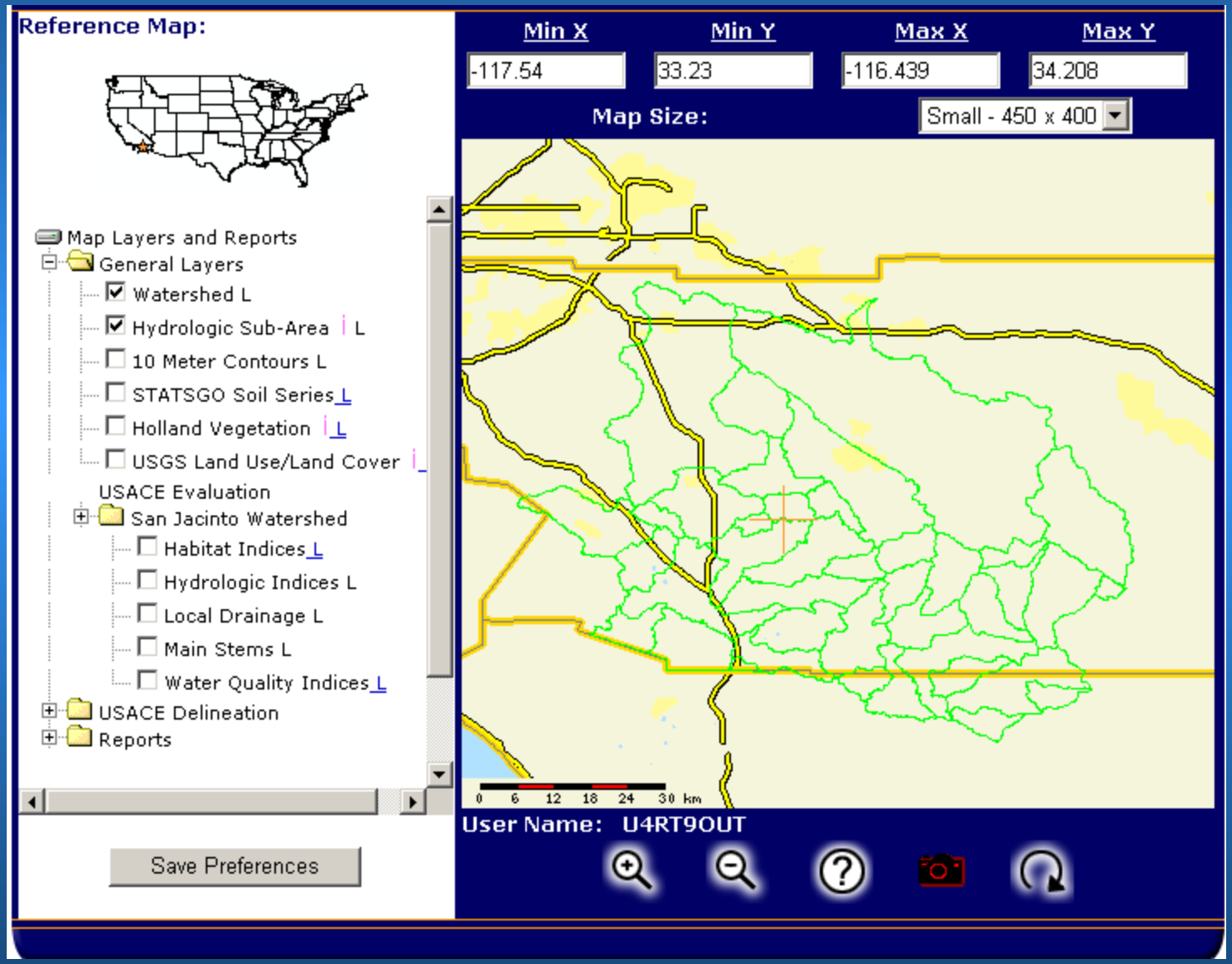


Starting Extent Captured

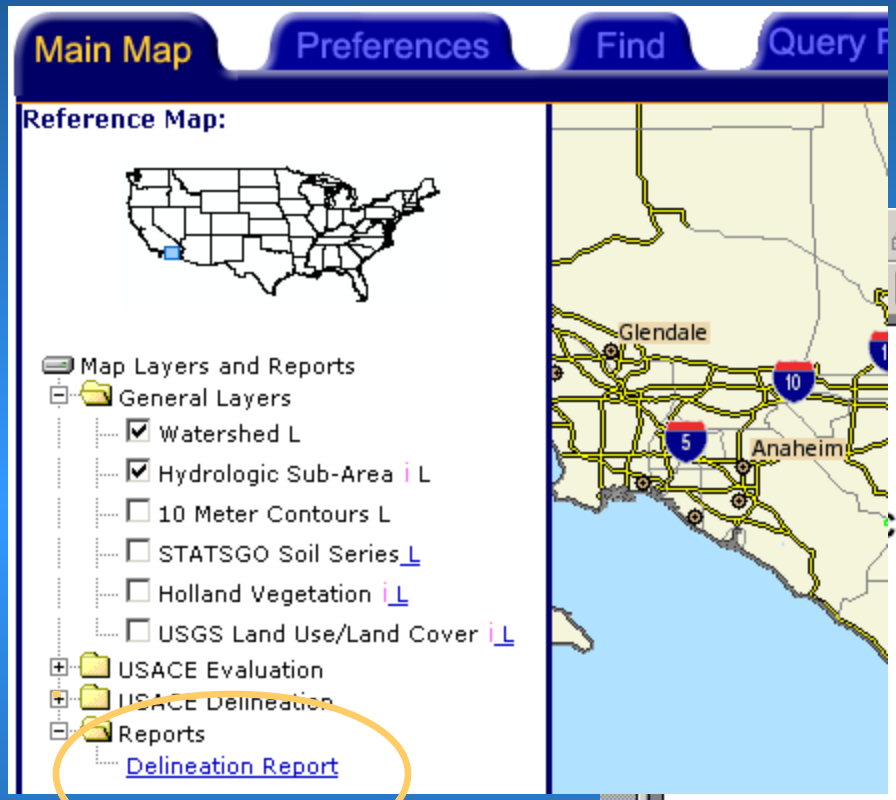


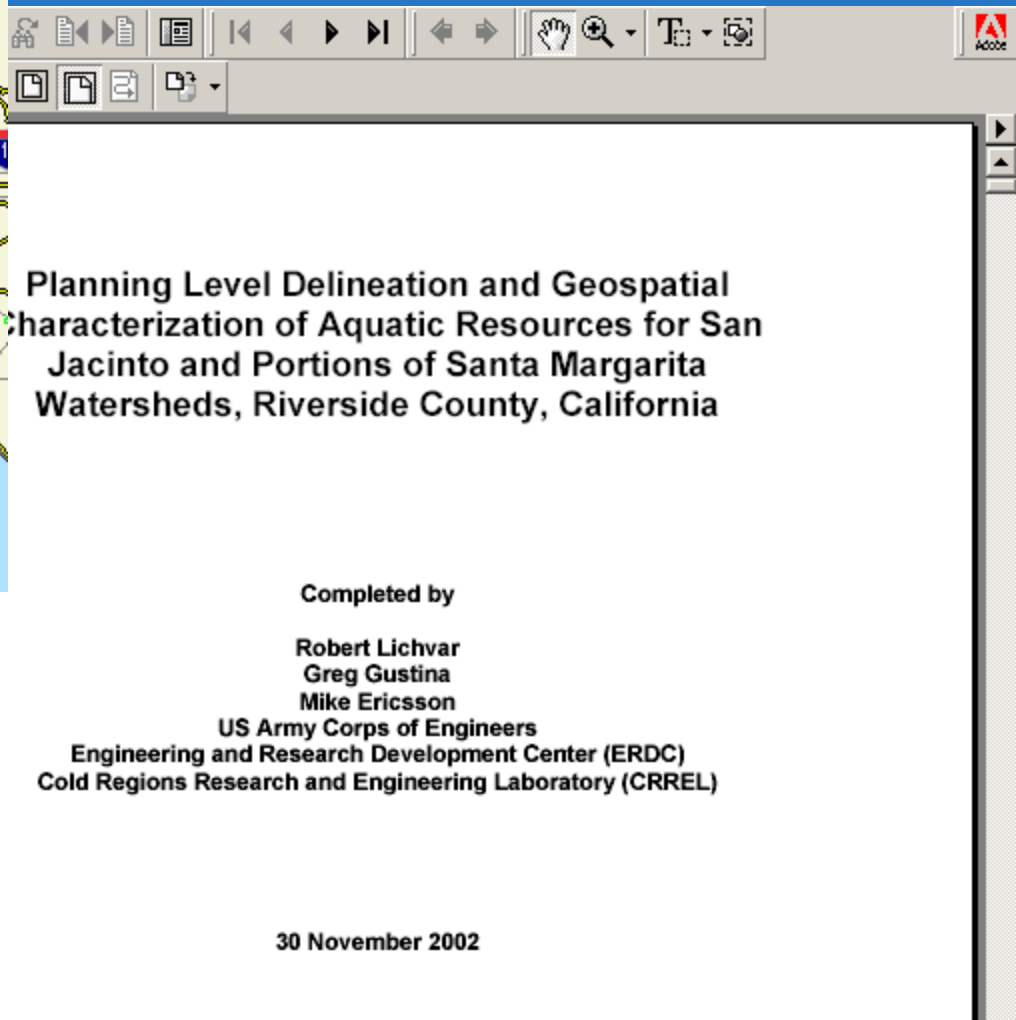
Starting Data Layers

Select Layers To Display When Tool Is Started



Specialized Reports





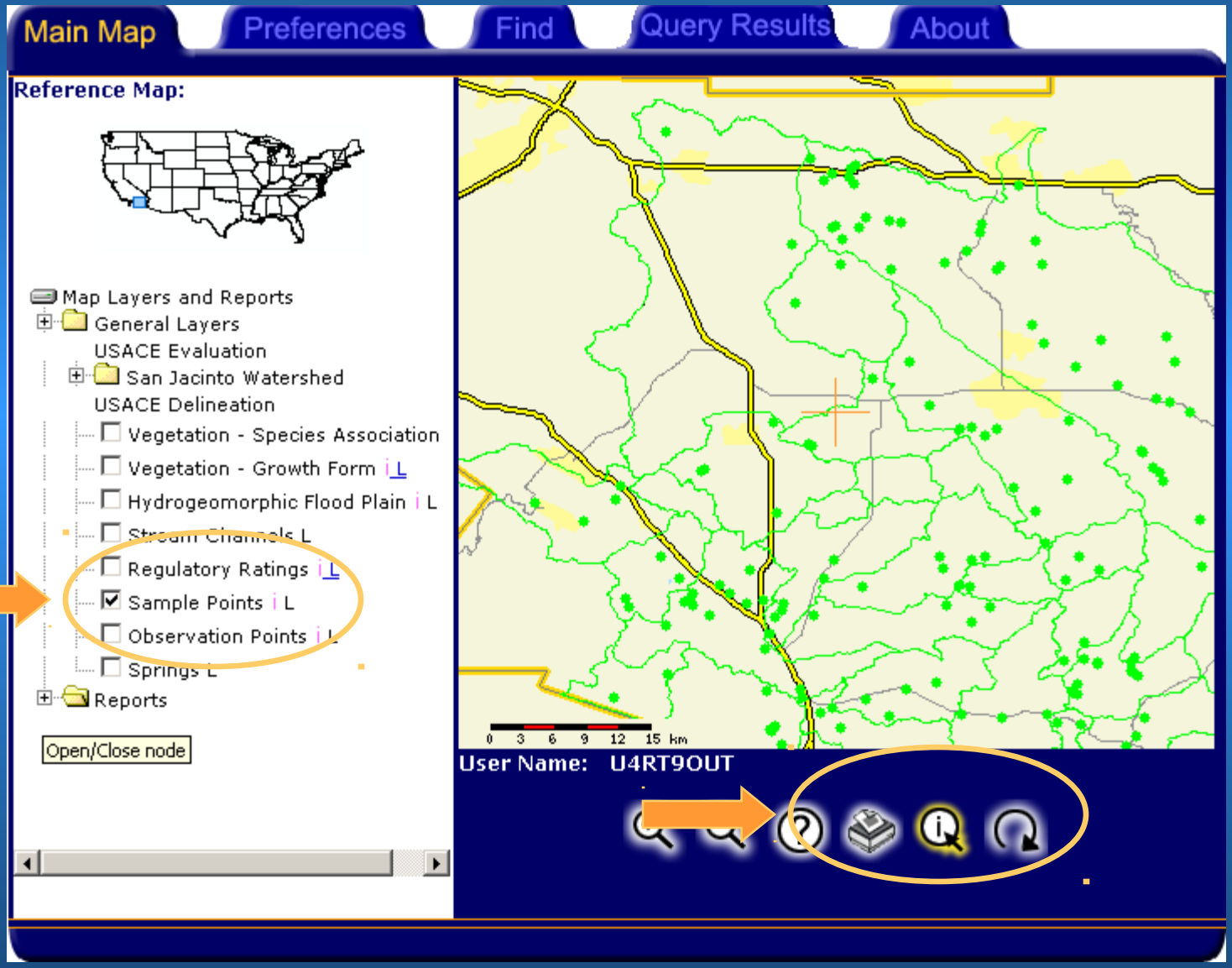
Planning Level Delineation and Geospatial Characterization of Aquatic Resources for San Jacinto and Portions of Santa Margarita Watersheds, Riverside County, California

Completed by

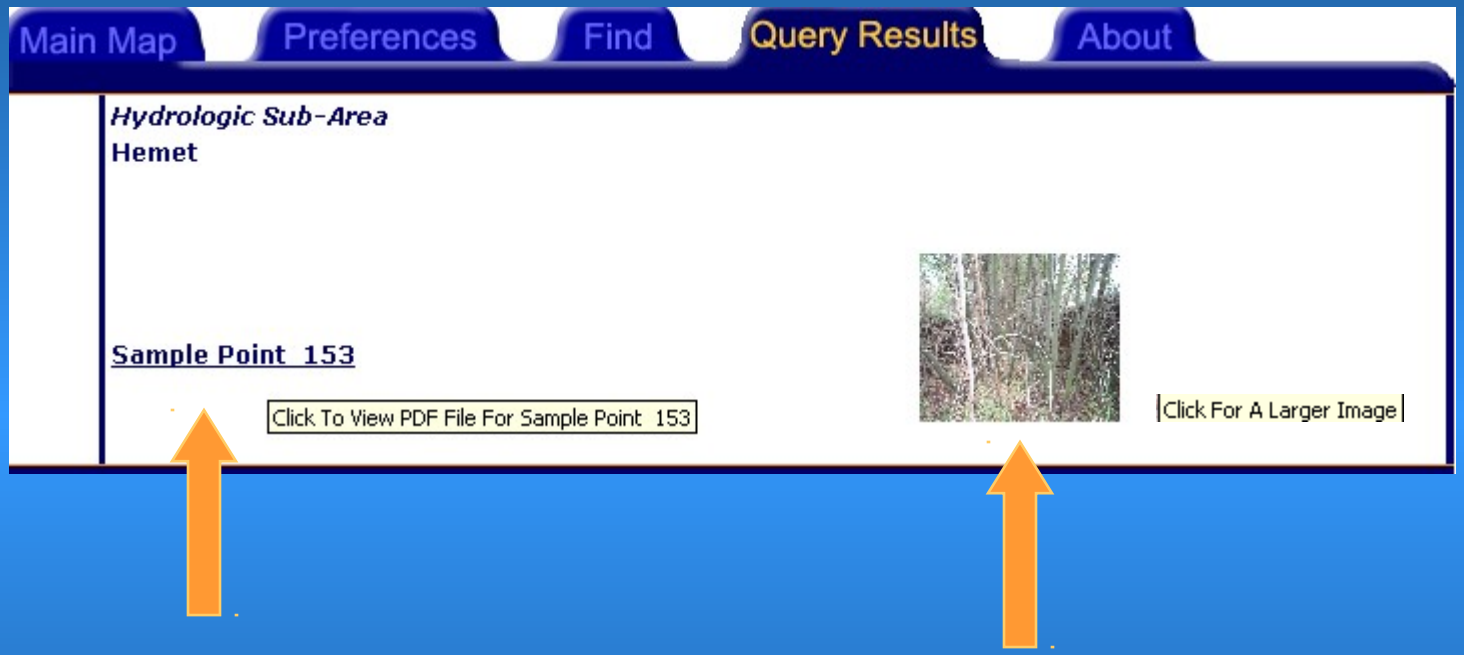
Robert Lichvar
Greg Gustina
Mike Ericsson
US Army Corps of Engineers
Engineering and Research Development Center (ERDC)
Cold Regions Research and Engineering Laboratory (CRREL)

30 November 2002

Query Sample Point



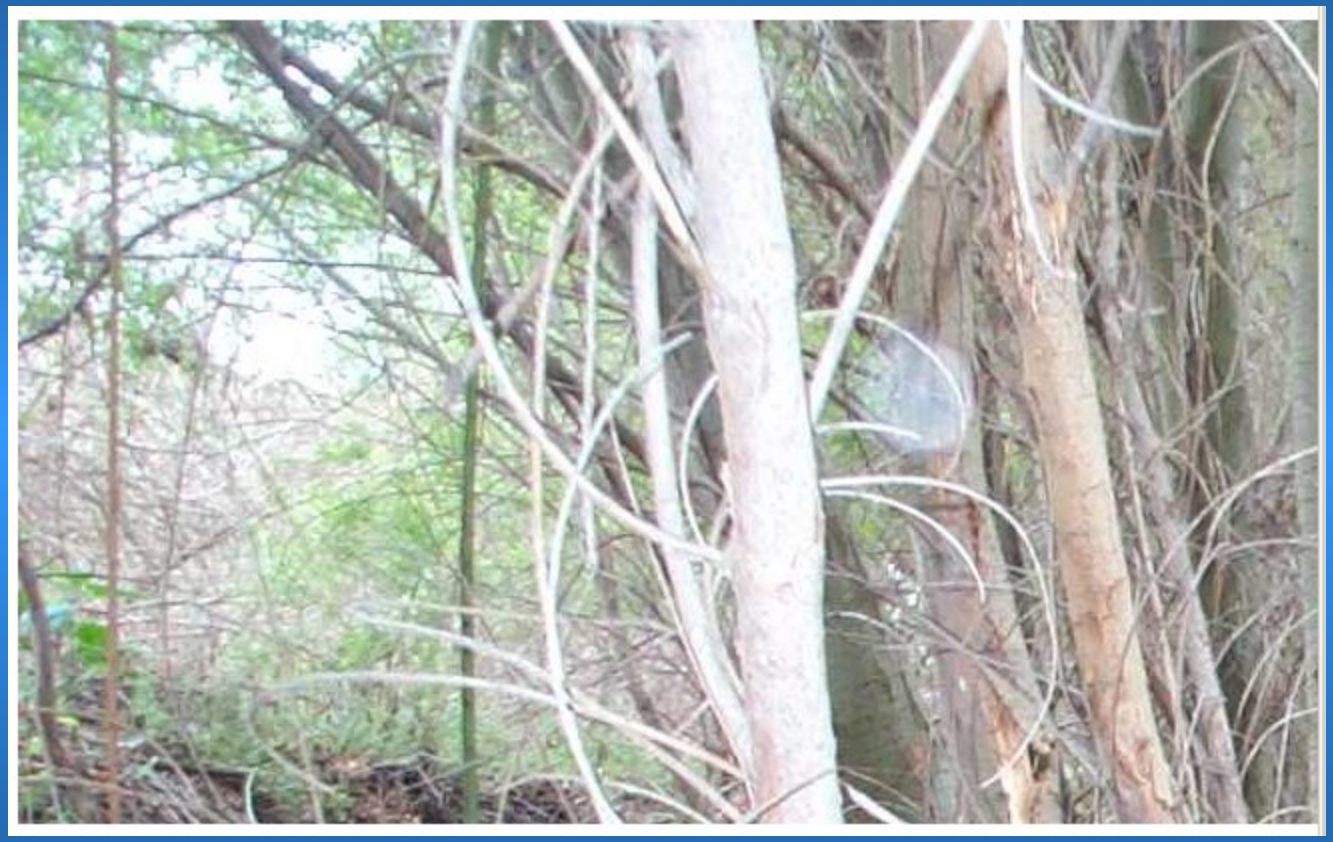
Query Sample Point Results



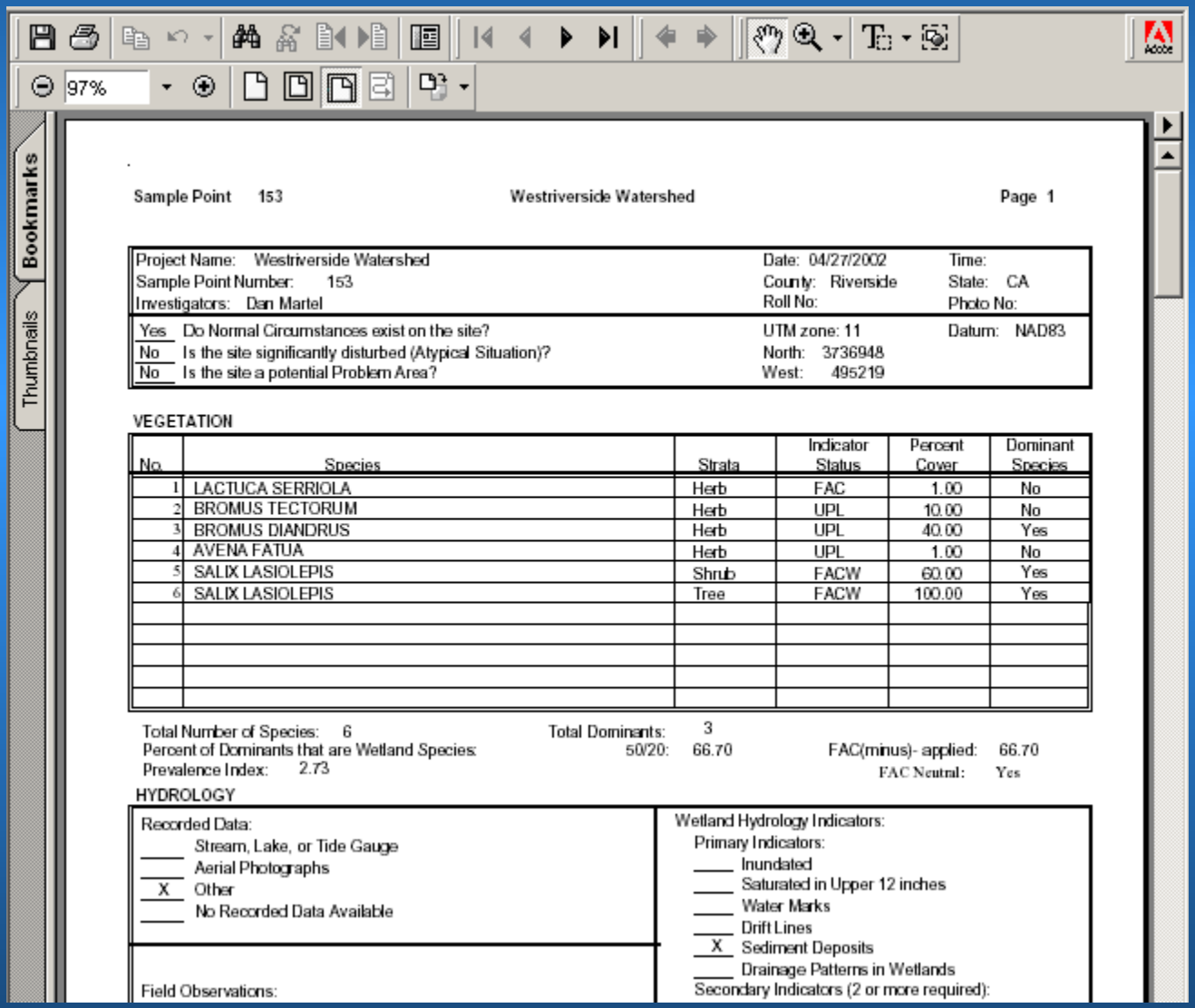
Click To View PDF File

Click For Larger Image

Sample Point 153 Photo



Sample Point 153 PDF



Sample Point 153 Westriverside Watershed Page 1

Project Name: Westriverside Watershed		Date: 04/27/2002	Time:
Sample Point Number: 153		County: Riverside	State: CA
Investigators: Dan Martel		Roll No:	Photo No:
Yes	Do Normal Circumstances exist on the site?	UTM zone: 11	Datum: NAD83
No	Is the site significantly disturbed (Atypical Situation)?	North: 3736948	
No	Is the site a potential Problem Area?	West: 495219	

VEGETATION

No.	Species	Strata	Indicator Status	Percent Cover	Dominant Species
1	LACTUCA SERRIOLA	Herb	FAC	1.00	No
2	BROMUS TECTORUM	Herb	UPL	10.00	No
3	BROMUS DIANDRUS	Herb	UPL	40.00	Yes
4	AVENA FATUA	Herb	UPL	1.00	No
5	SALIX LASIOLEPIS	Shrub	FACW	60.00	Yes
6	SALIX LASIOLEPIS	Tree	FACW	100.00	Yes

Total Number of Species: 6 Total Dominants: 3
Percent of Dominants that are Wetland Species: 50/20: 66.70 FAC(minus)- applied: 66.70
Prevalence Index: 2.73 FAC Neutral: Yes

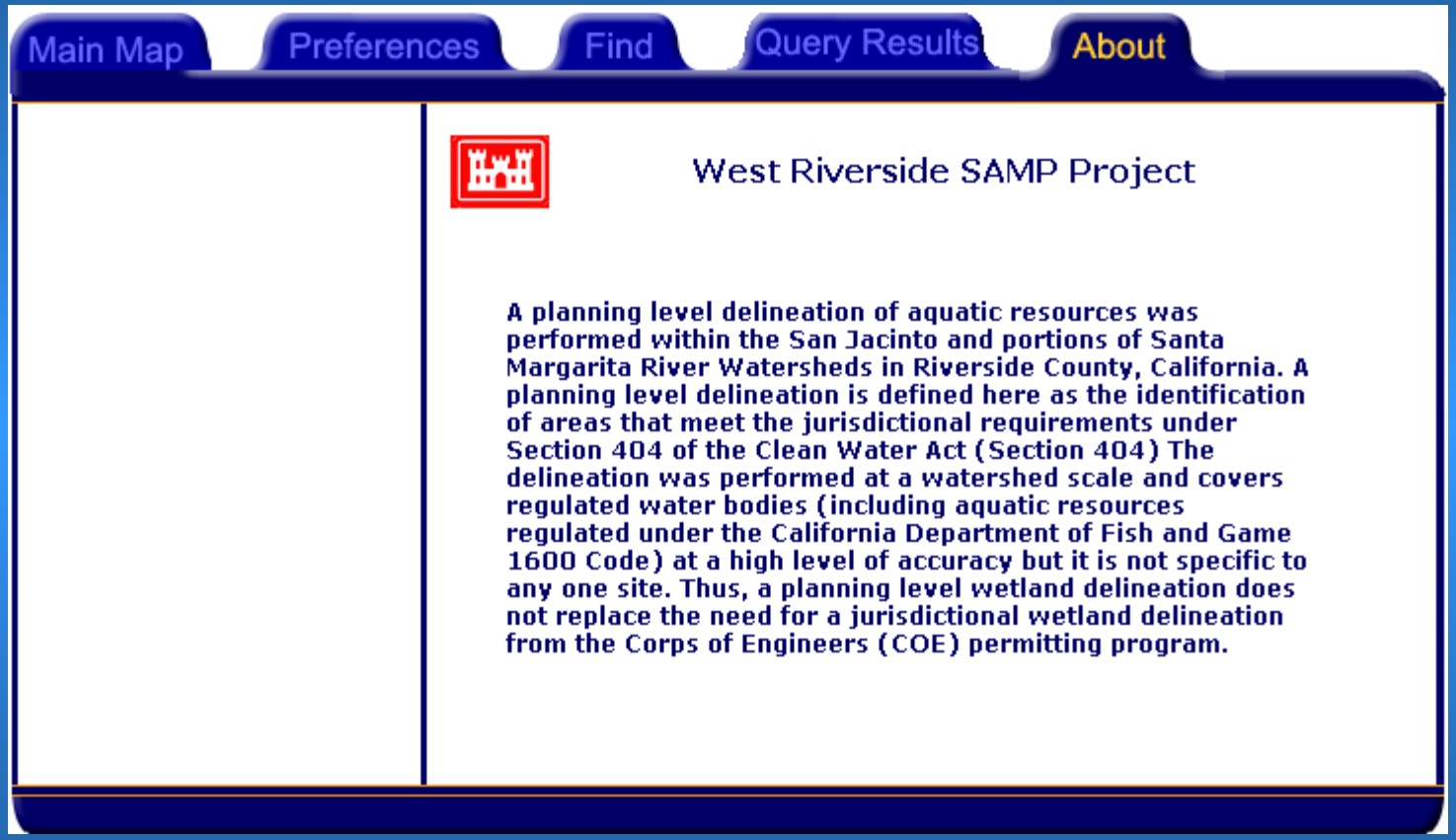
HYDROLOGY

Recorded Data:
____ Stream, Lake, or Tide Gauge
____ Aerial Photographs
__X__ Other
____ No Recorded Data Available

Field Observations:

Wetland Hydrology Indicators:
Primary Indicators:
____ Inundated
____ Saturated in Upper 12 inches
____ Water Marks
____ Drift Lines
__X__ Sediment Deposits
____ Drainage Patterns in Wetlands
Secondary Indicators (2 or more required):

About The Tool


Main Map
Preferences
Find
Query Results
About
West Riverside SAMP Project
A planning level delineation of aquatic resources was performed within the San Jacinto and portions of Santa Margarita River Watersheds in Riverside County, California. A planning level delineation is defined here as the identification of areas that meet the jurisdictional requirements under Section 404 of the Clean Water Act (Section 404) The delineation was performed at a watershed scale and covers regulated water bodies (including aquatic resources regulated under the California Department of Fish and Game 1600 Code) at a high level of accuracy but it is not specific to any one site. Thus, a planning level wetland delineation does not replace the need for a jurisdictional wetland delineation from the Corps of Engineers (COE) permitting program.

Location Of The Tool:

ps://m2.crrel.usace.army.mil/pls/watershed/WATERSHED_out2.watershedStart